Section 4 Faultfinding

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1. INTRODUCTION

With the launch of EasyVision Release 4 a client/server concept is released. This means that, besides the “old” standalone EasyVisions, a small cluster network is introduced with one server and one or more clients. The next chapters describe a top-down method to troubleshoot such a configuration.

In case of a standalone you can start with chapter 4 Sun SPARC computers.

Overview of Faultfinding tools:

• Power On Self Test (POST)	See SPARCstation Unit manual
• Service Menu tests	See chapter 5 Service Menu
– Diagnostics	
– UNIX	
• Forth Toolkit	See SPARCstation Unit manual
• Logfiles	See chapter 8 EasyVision log files
• SUN VTS	See Answerbook on distribution CD (Open windows Canvas, pop-up menu, Answerbook)

WARNING

In case of SCSI errors (UltraSPARC), check cabling/connectors inside the Peripheral Cabinet.
Be careful with the EMC protective sticky fingers.

WARNING

In case of a black screen, check keyboard cabling.

WARNING

If the Application doesn’t start-up after a successful configuration, check License Manager Lmgrd.startup file.
(See paragraph 8.5 License logfile Lmgrd.startup)

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2. CLIENT/SERVER ENVIRONMENT

Flow Chart:

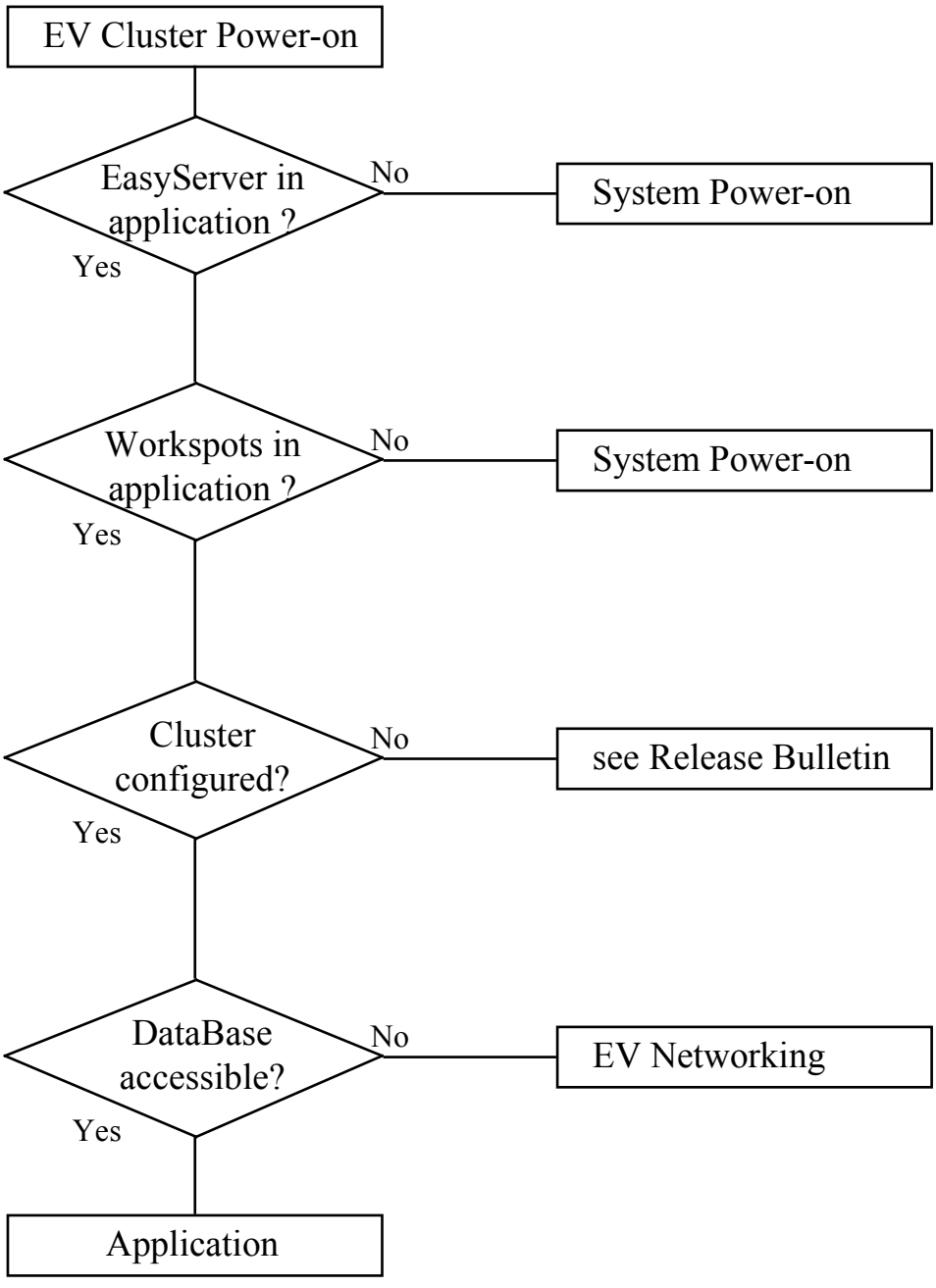

Figure 1: Cluster Level FlowChart

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3. EASYVISION RAD R4.2V2 CLUSTER NETWORK

A typical EasyVision RAD Release 4 / PCR-Network looks like the picture below. There are two networks: The EasyVision cluster network (fast ethernet) and the modality network (standard ethernet).

Another remark at this picture is that because the EasyServer is connected to two networks, it also has two ip-addresses (static router functionality), one for each network device (ethernet controller).

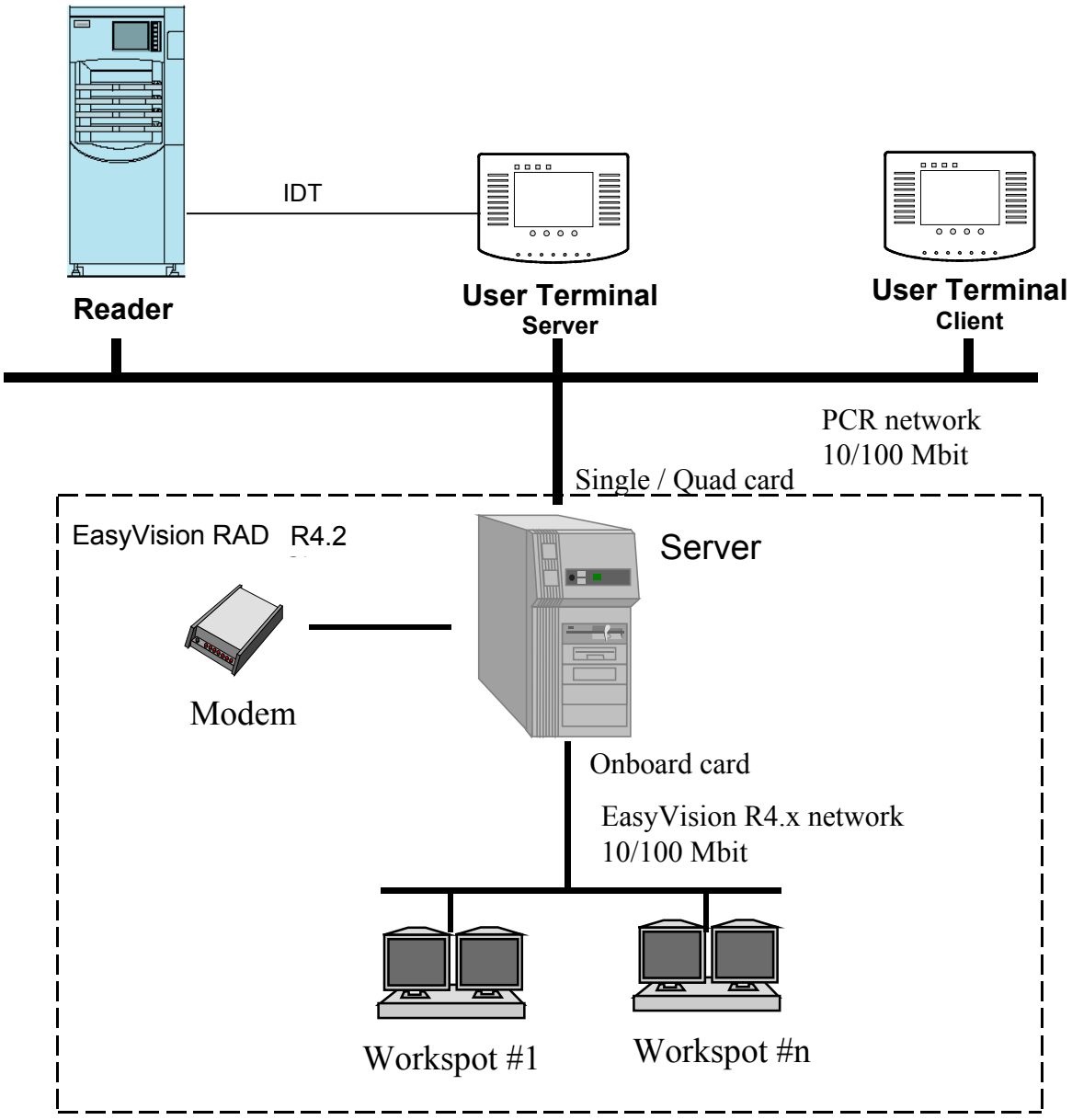

Figure 2: PCR Cluster

In case of problems:

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- Use **ping** command, see Service Manual Networking
- Check cables
- Check IP-addresses
- Check Fast Ethernet HUB (led indicator)
- Check Ethernet Controllers

See Network Manual for detailed information.

4. SUN SPARC COMPUTERS

For EasyVision RAD Release 4.2V2 the following SUN SPARC computers are used:

• Ultra 5	333 MHz/360MHz	see Unit Manual Ultra 5
• Ultra 10	333 MHz/440MHz	see Unit Manual Ultra 10
• Ultra 60	360MHz/450MHz	see Unit Manual Ultra 60

Flow Chart:

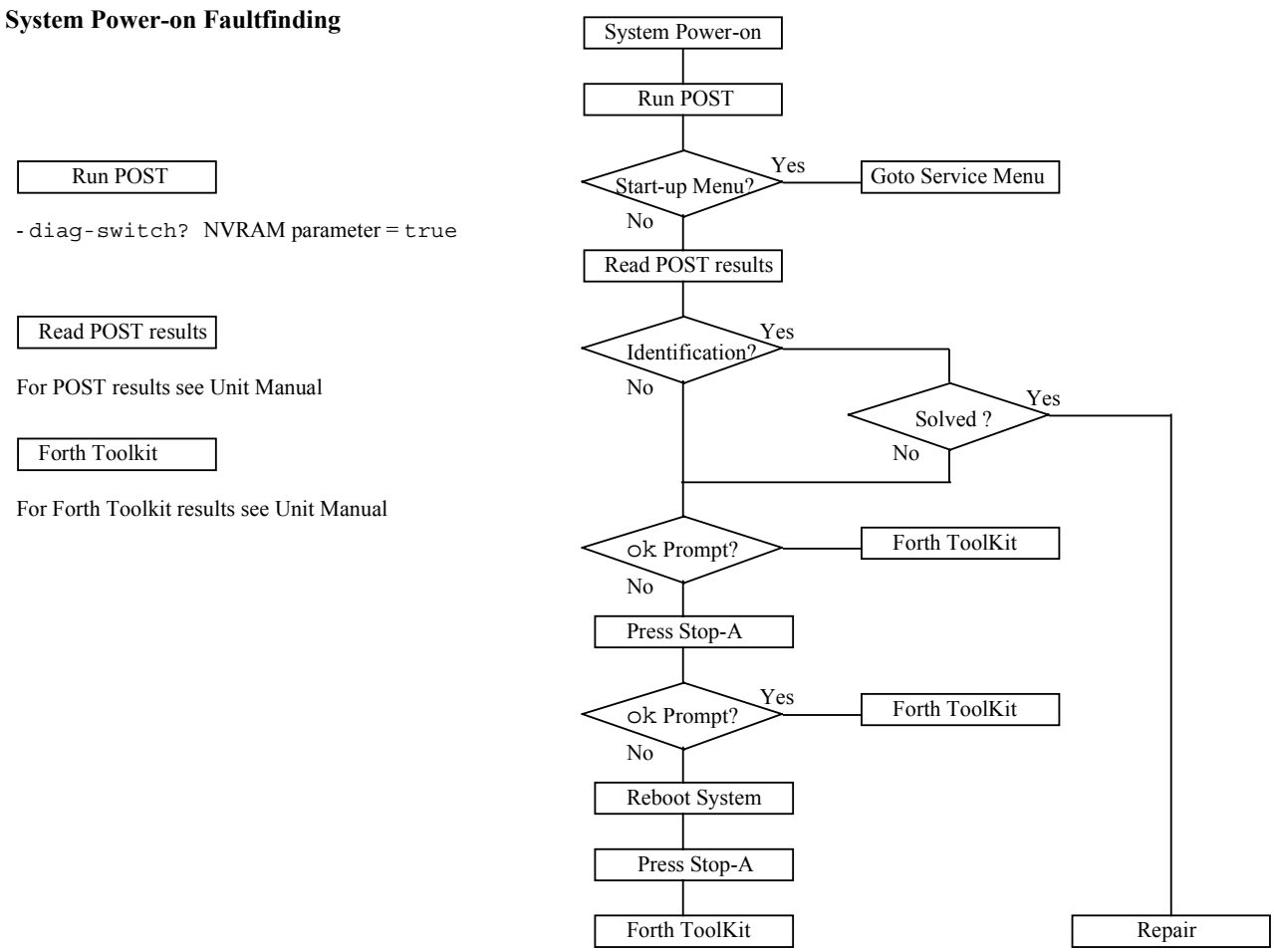

Figure 3: System Power on Faultfinding

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4.1. NON-VOLATILE RAM (NVRAM) PARAMETERS

4.1.1. NON-VOLATILE RAM (NVRAM) PARAMETERS ULTRA 5-10

Parameter name	Value	Default Value
tpe-link-test?	true	true
scsi-initiator-id	7	7
keyboard-click?	false	false
keymap		
ttyb-rts-dtr-off	false	false
ttyb-ignore-cd	true	true
ttya-rts-dtr-off	false	false
ttya-ignore-cd	true	true
ttyb-mode	9600,8,n,1,-	9600,8,n,1,-
ttya-mode	9600,8,n,1,-	9600,8,n,1,-
pcia-probe-list	1,2	1,2
pcib-probe-list	1,3,2,4,5	1,3,2,4,5
mfg-mode	off	off
diag-level	max	min
#power-cycles	74	
system-board-serial #	5014450026841 *(example)*	
system-board-date	35bd5758 *(example)*	
fcode-debug?	false	false
output-device	screen	screen
input-device	keyboard	keyboard
load-base	16384	16384
boot-command	boot	boot
auto-boot?	true	true
watchdog-reboot?	false	false
diag-file		
diag-device	net	net
boot-file		
boot-device	disk	disk net
local-mac-address?	false	false
ansi-terminal	true	true
screen-#columns	80	80
screen-#rows	34	34
silent-mode?	false	false
use-nvramrc?	false	false
nvramrc	devalias pgx24 /pci@1f,0..	
security-mode	none	none
security-password		
security-#badlogins	0	
oem-logo	00 00 00 00 00 00 00 00 ...	
oem-logo?	true	false
oem-banner		
oem-banner?	false	false
hardware-revision		
last-hardware-update		
diag-switch?	false	false

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4.1.2. NON-VOLATILE RAM (NVRAM) PARAMETERS ULTRA 60

Parameter name	Value	Default Value
scsi-initiator-id	7	7
keyboard-click?	false	false
keymap		
ttyb-rts-dtr-off	false	false
ttyb-ignore-cd	true	true
ttya-rts-dtr-off	false	false
ttya-ignore-cd	true	true
ttyb-mode	9600,8,n,1,-	9600,8,n,1,-
ttya-mode	9600,8,n,1,-	9600,8,n,1,-
pcia-probe-list	1,2	1,2
pcib-probe-list	1,3,2,4,5	1,2,2,4,5
mfg-mode	off	off
dial-level	max	min
#power-cycles	74	
system-board-serial #	5014450026841 *(example)*	
system-board-date	35bd5758 *(example)*	
fcode-debug?	false	false
output-device	screen:r1280x1024x76	screen
input-device	keyboard	keyboard
load-base	16384	16384
boot-command	boot	boot
auto-boot?	true	true
watchdog-reboot?	false	false
diag-file		
diag-device	net	net
boot-file	/kernel/unix	
boot-device	disk	disk net
local-mac-address?	false	false
ansi-terminal	true	true
screen-#columns	80	80
screen-#rows	34	34
silent-mode?	false	false
use-nvramrc?	false	false
nvramrc		
security-mode	none	none
security-password		
security-#badlogins	0	
oem-logo	00 00 00 00 00 00 00 00 ...	
oem-logo?	true	false
oem-banner		
oem-banner?	false	false
hardware-revision		
last-hardware-update		
diag-switch?	false	false

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5. SERVICE MENU

5.1. SERVICE MENU VIA SUN CONSOLE

To access the service menu environment select entry number 3 (Go to Service Menu) in the StartUp menu. Then at the **password:** prompt enter **password**

Service Menu
==========

1. Diagnostics Menu (sunvts and product diagnostics)
2. SunOs Menu (optical disk format and Sun Os commands)
3. File Menu (file transfer and manipulation commands)
4. Printer Menu (printer tests)
5. Monitor Menu (Monitor test images and adjustment)
6. PCR Systems (PCR diagnostics menu)

0 Logout

Enter the number of your choice: 1

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5.1.1. DIAGNOSTICS MENU

Diagnostics Menu
==========

1. **Start SunVts (Sunvts hardware diagnostics)**
   After using SunVTS, use 'Exit...' in the workspace pop-up menu
   to return to this menu
2. **Start EasyStore DOR Test (sa0)**
3. **Start CT/MR input DOR Test (sa1)**
4. **Start Dials Test**
5. **Check Modem's SW Settings**
   Type ~. to quit the check and return to this menu.
6. **Initialize Modem**
7. **Set Speed of Serial port**
8. **Start PCI Reader Interface Test**

0. **Return to the service menu**

Enter the number of your choice: 0

Select `8. Start PCI Reader Interface Test`

The System will prompt:

Connect PCR Reader testbox. Press <Enter> to continue :

after the testbox has been connected and powered press **Enter,** The system will respond:

PCR Reader Interface test takes about 5 seconds

if the system didn't detect any fault condition it will return the message

PCR Reader Interface test succeeded

press <Enter> to continue

If the system detects any fault condition during this test run, i.e. if power is not applied to the test box or the test cable is not connected to the Sun computer the system will respond:

poll control line , timed out
PCR Reader Interface test failed
Press <Enter> to continue :

Caution
The test program will finish the test with the following message
even if the test box was not connected during the test.

'Reader Interface Test' ended normal, status 0
Control channel and Data channel are both ok up to test box

Press <Enter> to continue:

after pressing **<Enter>** the system will output the **Diagnostics Menu**

There is no detailed error handling available which is capable to detect different levels of faulty conditions and which allows conclusions on errors.

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5.1.2. SUNOS MENU

SunOs Menu
==========

1. **Optical Disk Format Menu.**
2. **SunOs: a C-shell is started in the service directory.**
   Type 'exit' to return to this menu.
3. **ADB Convert (synchronize Anatomy DataBase and Processing Keys)**
3. **SunOS: OpenWindows is started in the service-directory**
   Use 'Exit...' in the workspace pop-up menu to return to this menu

0 Return to the service menu

Enter the number of your choice: 0

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5.1.3. FILE MENU

File Menu
==========

1 Logfiles Inspection (a C-shell is started in the log directory)
Use 'ls -l', 'more', 'tail -31l' to examine
the logfiles.
Type 'exit' to return to this menu.
2 Images Inspection (a C-shell is started in the images directory)
Use 'ls -l' to examine the image files.
Type 'exit' to return to this menu.
3 Create file /tmp/logfiles.zip containing logfiles and config files.

0 Return to Service Menu

Enter the number of your choice:

5.1.4. PRINTER MENU

Printer Menu
==========

1 HCU Calibration (start hardcopy unit calibration)
2 Start Printer Status Request
3 Start Data Channel Printer Test
Data is sent to the HCU via the data channel, then
press print on the HCU control panel for output
4 Start Printer Test
5 Start S-bus/PCI Printer Visual Interface Test (Led board required)

0 Return to Service Menu

Enter the number of your choice:

5.1.5. MONITOR MENU

Monitor Menu
==========

1 Start Monitor Color Map Test
2 Show LCD testimage (POPO_1288x1024.gif)

0 Return to Service Menu

Enter the number of your choice:

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5.1.6. PCR SYSTEMS MENU

PCR Systems Menu
==========

1 File Transfer- and Compression Settings Menu
2 File Transfer Menu (log and image file transfer)
3 ADB Convert (synchronize Anatomy Data Base and Processing Keys)
4 Set Serial Interface Parameters
5 PCR Reader Documentation

0 Return to Service Menu

Enter the number of your choice:

5.1.6.1. File Transfer Settings Menu

File Transfer Settings Menu:
==========

Actual Configuration:
EasyVision → RTAC: sz/rz
EasyVision ← RTAC: sz/rz
Compression: Zip

1	**EasyVision → RTAC:**	**Use kermit**	**(works only with modem terminal**
2	**EasyVision ← RTAC:**	**Use kermit**	**connections)**
3	**EasyVision → RTAC:**	**Use sz/rz**	**(works only with modem terminal**
4	**EasyVision ← RTAC:**	**Use sz/rz**	**connections)**
5	**EasyVision ←→ RTAC:**	**Use ftp**	**(works only with TCP/IP and ftp-server running on RTAC host)**
6	**Zip**		**(mostly used compression SW on DOS based computers)**
7	**UNIX compress**		**(tar| mostly used compression SW on UNIX based computers)**

0 Return to Service Menu

Enter the number of your choice:

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5.1.6.2. File Transfer Menu

File Transfer Menu
==========

Actual Configuration: RTAC → EasyVision : sz/rz
EasyVision → RTAC sz/rz
Compression: Zip

1 Collect & Send Logfiles
2 Send Image Files (Menu)
3 Manual File Transfer (a C-shell is started: go to the directory where you want to send/receive files from/to. Then start the desired protocol by typing its name followed by the appropriate arguments:)
0 Return to Service Menu

Enter the number of your choice:

5.1.6.3. Serial Interface Menu

Serial Interface Menu:
==========

Actual Configuration:
Device: ttyb
Mode: Modem

N Set Mode to Nullmodem (RTAC-cable-EV)
M Set Mode to M odem (RTAC-modem-EV)

!!! NOTE !!!
Don't forget to (re)set this flag to Modem
if Modem connection is desired later on!
!!! NOTE !!!

0 Return to Service Menu

Enter the number of your choice:

next page cont'd

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5.1.6.4. PCR Reader Documentation

5 PCR Reader Documentation

PCR Reader Documentation

Insert the CD-ROM containing the PCR Reader Documentation and press Return to continue:

- OpenWindows and the Acrobate Reader will be started.
- On ‘File’ and ‘Open’ the 'Open' window of the Acrobate Reader will be displayed.

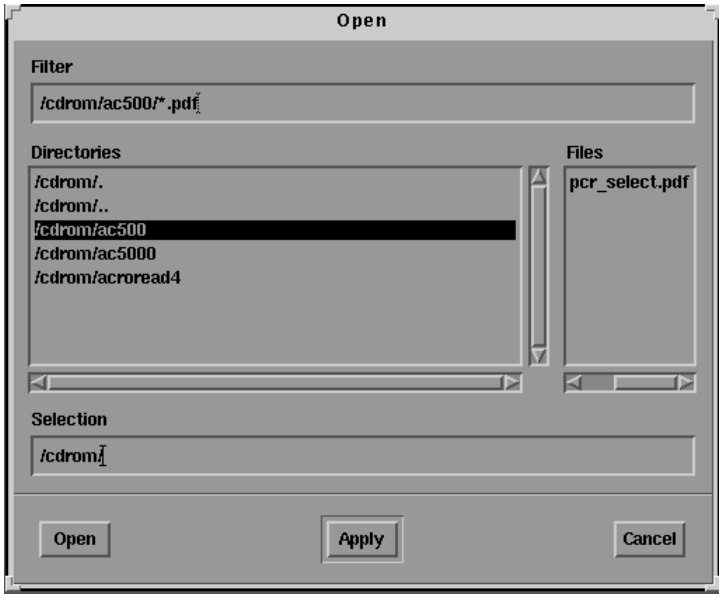

Figure 4: Acrobate Reader File Open Window

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- Double click on the line /cdrom/ac500 or /cdrom/ac5000 to select the appropriate system.
- The documentation files available on this CD-ROM are listed In the 'Files' area on the right (Figure 5)
- Double click on the line of the document you want to open and view.
- The first page of the document will be displayed

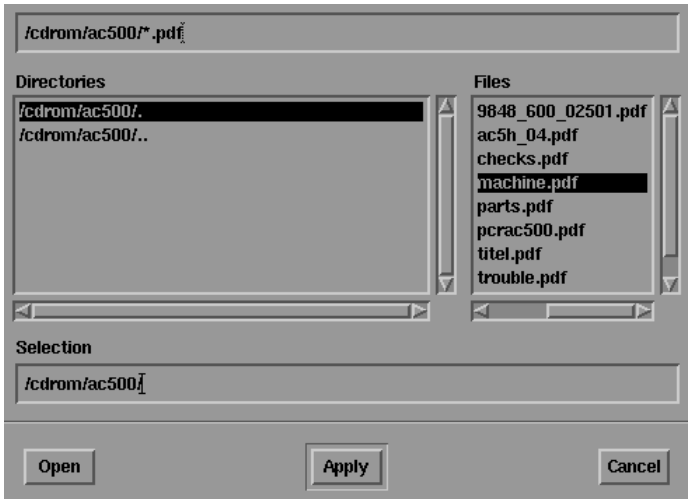

Figure 5: Acrobate Reader select File Window

5.2. SERVICE MENU VIA SERIAL PORT

login: Service
Password: <Enter HostID>
Last login: Tue Dec 2 14:13:51 on term/b

PMSN-ICS Solaris 2.5.1 adapted for EasyVision June 1996

```
+-------------------------------------------------------------+
| WARNING     : Access for authorised persons only |
+-------------------------------------------------------------+
```

Last local login: Tue Dec 2 11:26:37 MET 1997

Service Menu
==========

1 Diagnostics Menu (sunvts and product diagnostics)
2 SunOS Menu (optical disk format and SunOS commands)
3 File Menu (file transfer and manipulation commands)
4 Printer Menu (Printer tests)

0 Logout

Enter the number of your choice:

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5.2.1. DIAGNOSTICS MENU

Diagnostics Menu
==========

1 Start SunVts (Sun hardware diagnostics)
2 Start EasyStore DOR Test (sa0)
3 Start CT/MR input DOR Test (sa1)
4 Start Dials Test

0 Return to Service Menu

Enter the number of your choice:

SUN VTS Example:

```
+*****Hostname:ev1~~~~~Model:"SPARCstation-5"~~~~~SunVTS version:2.0***********+
| start    reset         quit           reprobe     test_mode    tests_select  |
| grouping set_options   option_files   log_files   connect_to   intervention  |
+*****************************[FWD:^F][BACK:^B]*****************************+
+----------------Status----------------++-------------Test_Groups-------------+
|           System_status:idle         || [*] Processor(s)         Options     |
|System_passes:0     Total_errors:0    || [*] Memory               Options     |
|         Elapsed_time:000:00:00       || [*] Network              Options     |
|                        Status_view   || [ ] Graphics             Options     |
|                                      || [ ] Comm.Ports           Options     |
|                       Passes Errors  || [*] OtherDevices         Options     |
|                                      || [*] SCSI-Devices(esp0)   Options     |
|  Processor(s)               0      0 ||                                      |
|   cpu-unit0(fputest)        0      0 ||                                      |
|  Memory                     0      0 ||                                      |
|   mem(pmem)                 0      0 ||                                      |
|  Network                    0      0 ||                                      |
|   le0(nettest)              0      0 ||                                      |
+--------------------------------------++--------------------------------------+
+-----------------------------------Console-----------------------------------+
|                                                                              |
|                                                                              |
|                                                                              |
+------------------------------------------------------------------------------+
```

5.2.2. SUNOS MENU

SunOS Menu
==========

1 Optical Disk Format Menu
2 SunOS: a C-shell is started in the service-directory
Type 'exit' to return to this menu.

0 Return to Service Menu

```
Enter the number of your choice:
```


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5.2.3. FILE MENU

File Menu

1 Logfiles Inspection (a C-shell is started in the log directory)
Use 'ls -l', 'more', 'tail -31l' to examine
the logfiles.
Type 'exit' to return to this menu.
2 Images Inspection (a C-shell is started in the images directory)
Use 'ls -l' to examine the image files.
Type 'exit' to return to this menu.
3 Create file /tmp/logfiles.zip containing logfiles and config files.

0 Return to Service Menu

Enter the number of your choice:

Logfiles Inspection: See chapter 8 EasyVision log files

Images Inspection: See chapter 6.4.1 /easy/service/images/import

File Transfer: See EasyVision Remote Service Manual

Create ZipFile:

The following protocols are available:

kermit
rb
rx
rz
sb
sx
sz

Files can be moved into the Zip file with long or short filenames

In case you want to use the Zip file on a DOS or MS-Windows 3.x system, you should choose for short files names. In that case the name of each file that is added to the Zip file will be converted into a number. The original names will be saved in a file "index". This index file will also be included into the Zip file (/tmp/logfiles.zip)

The next options are available:
1 Use short filenames
2 Use long filenames

Enter your choice:

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5.2.4. PRINTER MENU

Printer Menu
==========

1 Start Printer Status Request
2 Start Data Channel Printer Test
Data is sent to the HCU via the data channel, then
press print on the HCU control panel for output
3 Start Printer Test
4 Start S-bus Printer Interface Test (HCU testbox required)
5 Start S-bus Printer Visual Interface Test (Led board required)

0 Return to Service Menu

Enter the number of your choice:

For test contents see Service Manual Imager Compatibility

5.3. PCR SYSTEMS MENU (REMOTE)

SunOS 5.6

login: Service
Password: <Host ID>
Last login: Thu Sep 14 13:04:52 from 130.143.187.215
PMSN-EVM Sun Microsystems Inc. SunOS 5.6 Generic August 1997

```
+-------------------------------------------------+------------+
| WARNING     : Access for authorised persons only |
+-------------------------------------------------+------------+
```

Last local login: Tue Sep 12 16:24:18 MET DST 2000

Service Menu
==========

1 Diagnostics Menu (sunvts and product diagnostics)
2 SunOS Menu (optical disk format and SunOS commands)
3 File Menu (file transfer and manipulation commands)
4 Printer Menu (Printer tests)
5 PCR Systems (PCR diagnostics menu)

0 Logout

Enter the number of your choice: 5

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EasyVision PCR Systems Menu (remote) ...

Default Remote File Transfer Modes:
RTAC -> EV : sz/rz
EV -> RTAC : sz/rz
Compression: Zip

Could not find Release Info File for PCR User Terminal Server.
Might be wrong release/version/level.

Press Return to continue.

PCR Systems Menu:

1 File Transfer- and Compression Settings Menu
2 File Transfer Menu (log and image file transfer)

0 Return to Main Menu

Enter the number of your choice: 1

File Transfer Settings Menu:

Actual Configuration:
EasyVision --> RTAC : sz/rz
EasyVision <-- RTAC : sz/rz
Compression : Zip

1 EasyVision --> RTAC : Use kermit (works only with modem
2 EasyVision <-- RTAC : Use kermit terminal connections)
3 EasyVision --> RTAC : Use sz/rz (works only with modem
4 EasyVision <-- RTAC : Use sz/rz terminal connections)
5 EasyVision <--> RTAC : Use ftp (works only with TCP/IP,
and ftp server must be
running on RTAC host)
6 Zip (Most used compression S/W on DOS based computer)
7 UNIX compress (tar| Most used compression S/W on UNIX based computer)

0 Return to Service Menu

Enter the number of your choice: 5

FTP Parameter for RTAC File Transfer Menu:

Actual Settings:

RTAC host ip: service_pc
RTAC ftp user: Service
RTAC ftp password: password
RTAC ftp directory: c:/service

C Change actual settings
D Discard changes and return to File Transfer Menu
A Accept settings and return to File Transfer Menu

Enter the number of your choice: a

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File Transfer Settings Menu:

Actual Configuration:
EasyVision --> RTAC : ftp
EasyVision <-- RTAC : ftp
Compression : Zip

1 EasyVision --> RTAC : Use kermit (works only with modem
2 EasyVision <-- RTAC : Use kermit terminal connections)
3 EasyVision --> RTAC : Use sz/rz (works only with modem
4 EasyVision <-- RTAC : Use sz/rz terminal connections)
5 EasyVision <--> RTAC : Use ftp (works only with TCP/IP,
and ftp server must be
running on RTAC host)
6 Zip (Most used compression S/W on DOS based computer)
7 UNIX compress (tar| Most used compression S/W on UNIX based computer)

0 Return to Service Menu

Enter the number of your choice: 0

PCR Systems Menu:

1 File Transfer- and Compression Settings Menu
2 File Transfer Menu (log and image file transfer)

0 Return to Main Menu

Enter the number of your choice: 2

File Transfer Menu:

Actual Configuration: RTAC -> EasyVision: ftp
EasyVision -> RTAC: ftp
Compression : Zip

1 Collect&Send Logfiles
2 Send Image Files (Menu)
3 Manual File Transfer (a C-shell is started; go to the directory where
you want to send/receive files from/into. Then
start the desired protocol by typing its name
followed by the appropriate arguments).

0 Return to Service Menu

Enter the number of your choice: 1
adding: config.cfg (deflated 95%) . . . . . .
adding: PTResult (deflated 54%). . . . . .
adding: autoExportServer_autoExport_de25zh.env (deflated 68%)
.
.
adding: messages.1 (deflated 92%). . . . . .
adding: messages.2 (deflated 92%). . . . . .

collecting
&zipping
&transferring logfiles

The file 'evlog.zip' is sent to your terminal host via ftp.
It is put in the directory 'c:/service'.

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File transfer completed. Press Return to continue:

File Transfer Menu:

Actual Configuration: RTAC -> EasyVision: ftp
EasyVision -> RTAC: ftp
Compression : Zip

1 Collect&Send Logfiles
2 Send Image Files (Menu)
3 Manual File Transfer (a C-shell is started; go to the directory where you want to send/receive files from/into. Then start the desired protocol by typing its name followed by the appropriate arguments).

0 Return to Service Menu

Enter the number of your choice: 0

PCR Systems Menu:

1 File Transfer- and Compression Settings Menu
2 File Transfer Menu (log and image file transfer)

0 Return to Main Menu

Enter the number of your choice: 0

Service Menu
==========

1 Diagnostics Menu (sunvts and product diagnostics)
2 SunOS Menu (optical disk format and SunOS commands)
3 File Menu (file transfer and manipulation commands)
4 Printer Menu (Printer tests)
5 PCR Systems (PCR diagnostics menu)

0 Logout

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6. FILE SYSTEM

6.1. / (ROOT)

```
drwxr-x---   2 root     staff        512 Nov 10 22:17 APPLINST
drwxr-xr-x   2 root     root         512 Nov 11 12:58 TT_DB
lrwxrwxrwx   1 root     other          9 Nov 11 12:33 bin -> ./usr/bin
drwxr-xr-x   2 root     other        512 Nov 11 12:46 cdrom
drwxr-x---   5 EasyUser EasyGrp      512 Nov 11 20:27 dbadmin
drwxrwxr-x  17 root     sys         3072 Nov 12 15:04 dev
drwxrwxr-x   5 root     sys          512 Nov 11 12:35 devices
drwxr-xr-x   6 root     root         512 Nov 11 12:47 easy
drwxr-xr-x   9 root     root         512 Nov 11 20:27 easydata
drwxrwxr-x  23 root     sys         3072 Nov 12 15:04 etc
dr-xr-xr-x   2 root     root           2 Nov 12 15:37 home
drwxr-xr-x   9 root     sys          512 Nov 10 22:11 kernel
lrwxrwxrwx   1 root     other          9 Nov 11 12:33 lib -> ./usr/lib
drwx------   2 root     root        8192 Nov 10 21:22 lost+found
drwxrwxr-x   2 root     sys          512 Nov 10 21:26 mnt
dr-xr-xr-x   2 root     root           2 Nov 12 15:37 net
drwxrwxr-x   7 root     sys          512 Nov 10 22:18 opt
drwxr-xr-x   4 root     sys         1024 Nov 10 21:28 platform
dr-xr-xr-x   2 root     root        2240 Nov 12 15:37 proc
drwxrwxr-x   2 root     sys          512 Nov 10 22:13 sbin
drwxr-xr-x   4 root     root         512 Nov 11 12:35 spare
drwxrwxr-x   2 EasyUser EasyGrp      512 Nov 11 20:30 startup
drwxrwxrwt   4 sys      sys         1024 Nov 12 15:37 tmp
drwxrwxr-x  20 root     sys          512 Nov 10 22:19 usr
drwxrwxr-x  17 root     sys          512 Nov 10 21:53 var
dr-xr-xr-x   2 root     root           2 Nov 12 15:37 xfn
```

APPLINST:	Installation scripts
Cdrom:	Mount point for cdrom
Dbadmin:	Mount point for image disk
dev:	Devices directory
Easy:	Application binaries
Easydata:	Application config files
etc:	UNIX config files
home:	Home directories for users
kernel:	Kernel binaries
mnt:	Mount point multi purposes
tmp:	Temporary directory (destination logfiles.zip)
var:	System logging

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6.2. /DBADMIN

dbadmin is a backup directory for configuration files.

```
-rw-r-----   1 EasyUser EasyGrp   106029 Nov 11 20:27 8087f688.cus
-rw-r-----   1 EasyUser EasyGrp     8680 Nov 11 20:27 Configuration.pf
-rw-r-----   1 EasyUser EasyGrp    18747 Nov 11 20:27 config.cfg
drwxr-x---   4 EasyUser EasyGrp      512 Nov  3 14:59 db8087f688
-rw-r-----   1 EasyUser EasyGrp     4276 Nov 11 20:27 license.dat
drwxr-x---   2 EasyUser EasyGrp     8192 Oct 24 11:47 lost+found
drwxr-x---   4 EasyUser EasyGrp      512 Oct 27 14:58 setup
-rw-r-----   1 EasyUser EasyGrp      635 Nov 11 20:27 usedSlices
```

8087f688.cus	Customization file
Configuration.pf	Property file, binary format
config.cfg	Configuration file
db8087f688	Database ID file, binary format
license.dat	License file
usedSlices	Overview of used slices
setup	Setup database backup directory

6.3. /DEV

```
arp         kmem        ptyp6       ptyqe       sound       ttypa       ttyr2
audio       kstat       ptyp7       ptyqf       sp          ttypb       ttyr3
audioctl    ksyms       ptyp8       ptyr0       stderr      ttypc       ttyr4
be          le          ptyp9       ptyr1       stdin       ttypd       ttyr5
bpp0        llc1        ptypa       ptyr2       stdout      ttype       ttyr6
conslog     log         ptypb       ptyr3       swap        ttypf       ttyr7
console     logindmux   ptypc       ptyr4       syscon      ttyq0       ttyr8
cua         md          ptypd       ptyr5       systty      ttyq1       ttyr9
dsk         mem         ptype       ptyr6       tcp         ttyq2       ttyra
dump        mouse       ptypf       ptyr7       term        ttyq3       ttyrb
easy        nsp         ptyq0       ptyr8       ticlts      ttyq4       ttyrc
fb          null        ptyq1       ptyr9       ticots      ttyq5       ttyrd
fb0         openprom    ptyq2       ptyra       ticotsord   ttyq6       ttyre
fbs         printers    ptyq3       ptyrb       tty         ttyq7       ttyrf
fd          profile     ptyq4       ptyrc       ttyp0       ttyq8       udp
hme         ptmajor     ptyq5       ptyrd       ttyp1       ttyq9       volctl
icmp        ptmx        ptyq6       ptyre       ttyp2       ttyqa       winlock
ie          pts         ptyq7       ptyrf       ttyp3       ttyqb       wscons
ip          ptyp0       ptyq8       qe          ttyp4       ttyqc       zero
ipd         ptyp1       ptyq9       rawip       ttyp5       ttyqd       zsh
ipdcm       ptyp2       ptyqa       rdsk        ttyp6       ttyqe       zsh0
ipdptp      ptyp3       ptyqb       rmt         ttyp7       ttyqf       zsh1
isdn        ptyp4       ptyqc       rt          ttyp8       ttyr0
kbd         ptyp5       ptyqd       sad         ttyp9       ttyr1
```

Overview of hardware devices.

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6.4. /EASY/SERVICE

Description: Tools en utils for EasyVision Service

```
drwxr-x---   2 root     daemon       512 Nov 11 05:12 caldir
drwxr-x---   2 root     daemon       512 Nov 11 05:13 diagdir
drwxr-xr-x   3 root     daemon       512 Nov 11 04:42 images
lrwxrwxrwx   1 root     daemon        15 Nov 11 12:49 logdir -> /var/adm/cdslog
drwxr-x---   2 root     daemon       512 Nov 11 05:12 protocols
-rwxr-x---   1 root     daemon       332 Sep  2 16:28 removeConfigFiles
-rwxr-x---   1 root     daemon     22861 Nov  6 16:21 service_menu
-rw-r-----   1 root     daemon      4449 Nov 10 16:38 service_menu.data
-rwxr-x---   1 root     daemon    114204 Nov 10 21:12 unzip
-rwxr-x---   1 root     daemon     81352 Jul 14 20:04 zip
```

6.4.1. /EASY/SERVICE/IMAGES/IMPORT

Description: Import directory for images in database, test images for monitors, printers, DICOM etc.

```
TestImage_CR0000.SPI                  TestImage_RETIRED_USMF0000.SPI
TestImage_CT0000.SPI                  TestImage_RETIRED_USMF0001.SPI
TestImage_GrayScale0000.SPI           TestImage_RETIRED_USMF0002.SPI
TestImage_MR0000.SPI                  TestImage_SC0000.SPI
TestImage_NEW_NM0000.SPI              TestImage_SMPTE_1K0000.SPI
TestImage_NEW_US0000.SPI              TestImage_SMPTE_2560000.SPI
TestImage_NEW_USMF0000.SPI            TestImage_SMPTE_5120000.SPI
TestImage_NEW_USMF0001.SPI            TestImage_Wedge0000.SPI
TestImage_NEW_USMF0002.SPI            TestImage_XA0000.SPI
TestImage_PrinterCalibration0000.SPI  TestImage_XAB0000.SPI
TestImage_RETIRED_NM0000.SPI          TestImage_XAB0001.SPI
TestImage_RETIRED_US0000.SPI          TestImage_XRF0000.SPI
```

6.4.2. /EASY/SERVICE/IMAGES/EXPORT

Description: Export images from database (max. 5 images)

```
link: export -> /easydata/export_img
```


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6.5. /EASYDATA

Description: Configuration directory for EasyVision Application

```
-rw-r--r--   1 root     other     106029 Nov 11 20:27 8087f688.cus
-rw-r--r--   1 root     other      18747 Nov 11 20:27 config.cfg
drwxr-xr-x   2 EasyUser EasyGrp      512 Nov 11 12:48 export_img
drwxr-xr-x   2 EasyUser EasyGrp      512 Nov 11 12:48 filePrints
drwxr-xr-x   2 EasyUser EasyGrp      512 Nov 11 12:48 jpeg
-rw-r--r--   1 root     other       4276 Nov 11 20:27 license.dat
-rw-r--r--   1 root     other       4276 Nov  5 12:58 license.dat.~1~
-rw-rw-r--   1 root     EasyGrp       30 Nov 11 20:27 license.env
drwx------   2 root     root        8192 Nov 11 12:47 lost+found
-rw-rw-r--   1 root     EasyGrp        6 Nov 11 20:27 orig..language
-rw-rw-r--   1 root     EasyGrp     4276 Nov 11 20:27 orig.license.dat
-rw-rw-r--   1 root     EasyGrp       30 Nov 11 20:27 orig.license.env
drwxr-xr-x   2 EasyUser EasyGrp      512 Nov 11 12:48 pictures
drwxr-xr-x   2 EasyUser EasyGrp      512 Nov 11 20:27 prop
-rw-rw-r--   1 root     EasyGrp    15639 Nov 11 20:27 rebootData
drwxr-xr-x   2 EasyUser EasyGrp      512 Nov 11 12:48 text
```

license.dat: License file for EasyVision application

Example:

```
SERVER ev1 8087f688 2900
DAEMON easylicd /easy/appl/bin
INCREMENT EasyServer         easylicd 4.100  01-may-1998 1  3C237534749A7547D247
 " "                  8087f688
INCREMENT EasyClient         easylicd 4.100  01-may-1998 1  8C9365C43C3A52289E8F
 " "                  8087f688
INCREMENT EasyReview         easylicd 4.100  01-may-1998 1  4C3375A46690863BDD5B
 " "                  8087f688
INCREMENT Navigator          easylicd 4.100  01-may-1998 1  6C2315449AA892663DB3
 " "                  8087f688
INCREMENT EasyView           easylicd 4.100  01-may-1998 1  9CD3A5F4F74B79D5A525
 " "                  8087f688
INCREMENT BolusChaseClient   easylicd 4.100  01-may-1998 1  9CB3B594FEA144DC93F0
 " "                  8087f688
INCREMENT BolusChaseServer   easylicd 4.100  01-may-1998 1  DC93B5A49E583F882E50
 " "                  8087f688
INCREMENT SpineClient        easylicd 4.100  01-may-1998 1  8CC3E5A4C0484F6AF994
 " "                  8087f688
INCREMENT SpineServer        easylicd 4.100  01-may-1998 1  8CA3F5E4D0303A2DF803
 " "                  8087f688
INCREMENT ColonMap           easylicd 4.100  01-may-1998 1  3C6385E41183B87045DF
 " "                  8087f688
```

Explanation:

SERVER ev1 8087f688 2900 : EasyVision Name(ev1), Host-ID (8087f688), and portnumber (2900)

```
INCREMENT EasyCorrect        easylicd 4.100  01-may-1998 1  CC63A51428AD7C3FEF38
 " "                  8087f688
```

Comment Application Host-ID License Prog. Expiration date Key

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6.6. /ETC

Description: Config directory for Solaris. See manual pages for description.

```
SUNWconn            hosts               nsswitch.nis        saf
TIMEZONE            hosts.equiv         nsswitch.nisplus    security
aliases             inet                opt                 services
asppp.cf            inetd.conf          orig.asppp.cf       setmnt
auto_home           init                orig.defaultdomain  shadow
auto_master         init.d              orig.defaultrouter  shutdown
autopush            initpipe            orig.gateways       skel
clri                inittab             orig.hostname.le0   sulogin
crash               install             orig.hosts.equiv    swap
cron                ioctl.syscon        orig.nodename       swapadd
cron.d              iu.ap               passwd              sysdef
dcopy               killall             path_to_inst        syslog.conf
default             labelit             path_to_inst.old    syslog.pid
device.tab          lib                 profile             system
devlink.tab         log                 protocols           tar
dfs                 logindevperm        prtconf             telinit
dgroup.tab          magic               prtvtoc             tm
dorformat.dat       mail                publickey           ttydefs
driver_aliases      minor_perm          rc0                 ttysrch
driver_classes      mkfs                rc0.d               uadmin
dumpdates           mknod               rc1                 umount
ff                  mnttab              rc1.d               umountall
fmthard             motd                rc2                 utmp
format              mount               rc2.d               utmppipe
format.dat          mountall            rc3                 utmpx
fs                  name_to_major       rc3.d               uucp
fsck                name_to_sysnum      rc5                 vfstab
fsdb                ncheck              rc6                 volcopy
fstyp               net                 rcS                 vold.conf
ftpusers            netconfig           rcS.d               wall
gateways            netmasks            reboot              whodo
getty               networks            remote              wtmp
group               nodename            rmmount.conf        wtmpx
grpck               nscd.conf           rmt
halt                nsswitch.conf       rpc
hostname.le0        nsswitch.files      rpld.conf
```

gateways:

```
net 192.168.15.0    gateway 192.168.12.80    metric 1    passive
```

Explanation:

The **gateway** (router) for **net** 192.168.15 is 192.168.12.80

1: Value for **metric** indicating the hop count to the destination host or network.

Gateways specified in this manner should be marked **passive** if they are not expected to exchange routing information, while gateways marked **active** should be willing to exchange routing information (that is, they should have an in-routed process running on the machine). Passive gateways are maintained in the routing tables forever.

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hosts:

The hosts file is a local database that associates the names of hosts with their Internet Protocol (IP) addresses. The hosts file can be used in conjunction with, or instead of, other hosts databases, including the Domain Name System (DNS), the NIS hosts map and the NIS+ hosts table. Programs use library interfaces to access information in the hosts file.

The hosts file has one entry for each IP address of each host. If a host has more than one IP address, it will have one entry for each, on consecutive lines.

```
#
# Sun Host Database
#
# If the NIS is running, this file is only consulted when booting
#
127.0.0.1       localhost
#
192.168.12.64    ev1 loghost
222.222.222.221    evppp
222.222.222.222    remoteppp
192.168.12.80    ev2
```

Explanation:

```
127.0.0.1          localhost for loopback
192.168.12.64      ev1 loghost own IP-address, always followed by loghost
222.222.222.221    evppp own PPP connection IP address
222.222.222.222    remoteppp remote PPP connection address
192.168.12.80      ev2 other host
```

6.7. /VAR

```
drwxrwxr-x   6 root     sys          512 Dec  2 10:24 adm
drwxr-xr-x   2 root     sys          512 Dec  2 14:01 audit
drwxr-xr-x   2 root     sys          512 Dec  1 14:47 cron
drwxr-xr-x   2 root     sys          512 Nov 28 19:22 log
drwx------   2 root     root        8192 Nov 28 19:18 lost+found
drwxrwxrwt   3 root     mail         512 Nov 28 19:21 mail
drwxrwxrwx   2 bin      bin          512 Nov 28 19:21 news
drwxr-xr-x   2 root     sys          512 Nov 28 19:42 nis
drwxrwxr-x   3 root     sys          512 Dec  2 14:22 opt
drwxrwxrwx   2 bin      bin          512 Nov 28 19:21 preserve
drwxr-xr-x   8 root     sys          512 Nov 28 19:51 sadm
drwxr-xr-x   4 bin      bin          512 Dec  1 14:47 saf
drwxrwxr-x   6 root     bin          512 Nov 28 19:21 spool
drwxrwxrwt   3 sys      sys          512 Dec  2 14:22 tmp
drwxr-xr-x   3 bin      bin          512 Nov 28 19:42 yp
```

audit:	watchdog
cron:	timer
log:	logging
mail:	not used
news:	not used
Spool:	printer spooling

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6.7.1. /VAR/ADM

```
-rw-------   1 uucp     bin            0 Nov 28 19:22 aculog
drwxr-x---   3 EasyUser EasyGrp     3072 Dec  2 16:18 cdslog
-r--r--r--   1 root     other      33628 Dec  2 16:09 lastlog
drwxrwxr-x   2 adm      adm          512 Dec  1 14:47 log
-rw-rw-rw-   1 root     root       48705 Dec  2 16:16 messages
drwxrwxr-x   2 adm      adm          512 Nov 28 19:21 passwd
drwxrwxr-x   2 root     sys          512 Nov 28 20:01 sa
-rw-rw-rw-   1 bin      bin            0 Nov 28 19:22 spellhist
-rw-------   1 root     root         295 Dec  2 12:39 sulog
-rw-r--r--   1 root     bin          396 Dec  2 16:09 utmp
-rw-r--r--   1 root     bin         4092 Dec  2 16:09 utmpx
-rw-rw-rw-   1 root     root         672 Dec  2 14:01 vold.log
-rw-rw-r--   1 adm      adm         8316 Dec  2 16:09 wtmp
-rw-rw-r--   1 adm      adm        85932 Dec  2 16:09 wtmpx
```

6.7.2. /VAR/ADM/CDSLOG

For description see 8.1 Error and Process logfiles.

```
autoExportServer_autoExport_ev1.env
autoExportServer_autoExport_ev1.log
autoExportServer_autoExport_ev1.startup
computeServer_compute_ev1.env
computeServer_compute_ev1.log
computeServer_compute_ev1.startup
dbServer_db8087f688.env
dbServer_db8087f688.log
dbServer_db8087f688.startup
deleteServer_delete_ev1.env
deleteServer_delete_ev1.log
deleteServer_delete_ev1.startup
dorServer_dor_ev1.env
dorServer_dor_ev1.log
dorServer_dor_ev1.startup
hcServer_hcs0_ev1.env
hcServer_hcs0_ev1.log
hcServer_hcs0_ev1.startup
httpServer_http_ev1.env
httpServer_http_ev1.log
httpServer_http_ev1.startup
lmgrd.startup
networkServer_export_ev1.env
networkServer_export_ev1.log
networkServer_export_ev1.startup
networkServer_import_ev1.env
networkServer_import_ev1.log
networkServer_import_ev1.startup
setup
setupDbServer_setup.env
setupDbServer_setup.log
setupDbServer_setup.startup
systemMonitor_systemMonitor_ev1.env
systemMonitor_systemMonitor_ev1.log
systemMonitor_systemMonitor_ev1.startup
template.env
uiDataHandling_uiDataHandling_ev1.env
uiDataHandling_uiDataHandling_ev1.log
uiDataHandling_uiDataHandling_ev1.start
up
uiDentalView_uiDentalView_ev1.env
uiDentalView_uiDentalView_ev1.log
uiDentalView_uiDentalView_ev1.startup
uiPerfusion_uiPerfusion_ev1.env
uiPerfusion_uiPerfusion_ev1.log
uiPerfusion_uiPerfusion_ev1.startup
uiRF_uiRF_ev1.env
uiRF_uiRF_ev1.log
uiRF_uiRF_ev1.startup
uiStackView_uiStackView_ev1.env
uiStackView_uiStackView_ev1.log
uiStackView_uiStackView_ev1.startup
uiVolume_uiVolume_ev1.env
uiVolume_uiVolume_ev1.log
uiVolume_uiVolume_ev1.startup
xConfig_xConfig.env
xConfig_xConfig.log
xConfig_xConfig_ev1.startup
xEasyReview_xEasyReview_ev1.env
xEasyReview_xEasyReview_ev1.log
xEasyReview_xEasyReview_ev1.startup
```


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6.8. DISK OCCUPATION (EXAMPLE)

Using the UNIX command **df** will report the number of free disk blocks and files:

```
# df

/                  (/dev/dsk/c0t3d0s0 ):   61996 blocks    32624 files
/usr               (/dev/dsk/c0t3d0s6 ):   97250 blocks    68917 files
/proc              (/proc             ):       0 blocks       52 files
/dev/fd            (fd                ):       0 blocks        0 files
/var               (/dev/dsk/c0t3d0s3 ):   90182 blocks    27819 files
/spare             (/dev/dsk/c0t3d0s7 ):  251450 blocks    62651 files
/easydata          (/dev/dsk/c0t3d0s5 ): 1924738 blocks   484128 files
/easy              (/dev/dsk/c0t3d0s4 ):  153434 blocks    89551 files
/dbadmin           (/dev/dsk/c0t2d0s5 ):   68554 blocks    51231 files
```

Using the UNIX command **df -k** will report the number of free disk blocks and files per filesystem:

```
# df -k

Filesystem            kbytes    used   avail capacity  Mounted on
/dev/dsk/c0t3d0s0      67815   36817   24218    61%    /
/dev/dsk/c0t3d0s6     153951  105326   48625    69%    /usr
/proc                      0       0       0     0%    /proc
fd                         0       0       0     0%    /dev/fd
/dev/dsk/c0t3d0s3      48023    2932   40291     7%    /var
/dev/dsk/c0t3d0s7     125735      10  113155     1%    /spare
/dev/dsk/c0t3d0s5     962582     213  866119     1%    /easydata
/dev/dsk/c0t3d0s4     176815  100098   76717    57%    /easy
/dev/dsk/c0t2d0s5      95992   61715   24687    72%    /dbadmin
```

The **du -skd** command shows the number of kilobytes occupied by a directory and recursively all its subdirectories and files, but within the file system boundaries. The figures do not include log files and exported image files in UNIX format.

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7. FILE TRANSFER

7.1. SERIAL PORT

1. Connect the Service-PC (See Service Manual) to serial port B and boot it.
2. Insert the Communication-disc (4522 220 84831), delivered with the system into drive A.
3. Execute the following procedure:

`C > a:`	Go to drive a:
`A > kermit`	Start kermit program. If the screen stays black: press RETURN
`ttyb login: Service` `Password:8083e3bd`	Login on the EasyVision. Password is the hostid number of the EasyVision workstation.

5. Select option **3** "`File Menu`" in the Service Menu.
6. Select option **3** "`File Transfer`".
7. Enter as follows:

`EV1# cd /easydata`	Connect to directory /easydata
`EV1# kermit`	Start kermit on the EasyVision.
`C-Kermit> Server`	Put kermit into Server mode.
`KERMIT READY TO SERVE`	Response of entering the Server mode.
`Alt-X`	Back to the service-PC.
`MS-Kermit> get /easydata/*.cus`	Get the customize file from EasyVision to the disc.
`MS-Kermit> send /easydata/*.cus`	Send the customize file from EasyVision to the disc.

NOTE

To send/get the customization file are just examples

8. To disconnect type:

`MS-Kermit> finish`	Stop the Server mode of the remote kermit.
`MS-Kermit> connect`	Go to EasyVision.
`C-Kermit> quit`	Stop the remote kermit.
`EV1# exit`	Back to the Service Menu

9. Select option **0** twice to logout:

`ttyb login:`	Back at the login prompt of the EasyVision.
`Alt-X`	Back to the service-PC.
`MS-Kermit> quit`	Stop the kermit program on the service PC.
`A>`	DOS-prompt.

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7.2. FLOPPY DRIVE

NOTE

Insert floppy into drive before mounting it.

---

1. Goto Service Menu
2. Select option 2 "Sun Os Menu"
3. Select option 3 "SunOS: OpenWindows"

   Open Windows is started

4. Open command tool (Right mouse click on canvas)
5. `Host_name#cd /` (Goto root directory)

   If directory `/floppy` does not exists do:
6. `Host_name#mkdir /floppy` (create mounting point for floppy drive)

7. `Host_name#mount -F pcfs /dev/diskette /floppy` (mount floppy as DOS filesystem)
8. `Host_name#cd /floppy`

   From now on the floppy drive is mounted to the directory `/floppy`

   Examples:

   To list files on floppy:
   `Host_name#ls` (lists floppy contents)

   To copy license file to EasyVision:
   `Host_name#cp host-id.dat /easydata/license.dat` (host-id 8 digit hex code)

   To copy EasyVision zipped logfiles to floppy:
   `Host_name#cp /tmp/logfiles.zip /floppy` (logfiles.zip created in Service Menu)

   To copy EasyVision backup files to floppy:
   ```
   Host_name#cp /easydata/config.cfg /floppy
   Host_name#cp /easydata/*.cus /floppy
   Host_name#cp /easydata/*.cal /floppy
   ```

9. To unmount floppy:
   `Host_name#cd /` (Goto root directory, otherwise it will not unmount)
   `Host_name#eject floppy` or `Host_name#umount /floppy`

WARNING

You must unmount the floppy. If you don't the floppy data will be damaged!

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8. EASYVISION LOG FILES

EasyVision R4.1 is able to create one .ZIP archive with all logfiles, configuration files, etc. See paragraph 5.2.3 File Menu. This Zip file must be sent to Helpdesk DMC-RAD Hamburg in case of problems.

Overview logfiles:	**error.log**	**critical error logfile**
	<process>.log	process logfiles
	Lmgrd.startup	license logfile
	install.log	installation logfile
	net_impo	network import messages file
	get net_expo	network export messages file
	get sun_confi	SUN Configaration / DICOM Association messages file

8.1. ERROR AND PROCESS LOGFILES

This section describes which logfiles are available in the /var/adm/cdslog directory for EasyVision software diagnostics.

The logging mechanism writes information in two files:
- error log file: /var/adm/cdslog/error.log
- process log file: /var/adm/cdslog/<process>.log

The error log file contains only messages that are generated at:
- application crash
- software error exit

For each process a separate logfile is created. It contains the following information:
- More elaborate information about a process crash or error exit,
- All other log messages generated by the process,
- Output of statistics measurements.

8.2. COLLECTING AND ZIPPING ALL LOGFILES

From the Start Menu select
- 2 Go to Service Menu
  Password: 'password'
- 3 File Menu: (*the File Menu will be displayed)*
- 3 Create file **/tmp/logfiles.zip** containing logfiles and config file

If there are any problems with the EasyVision RAD or the whole system which need to be investigated create this zipped logfile as soon as possible or have it done by the personel on site. Logfiles possibly containing the error data will then not be overwritten.

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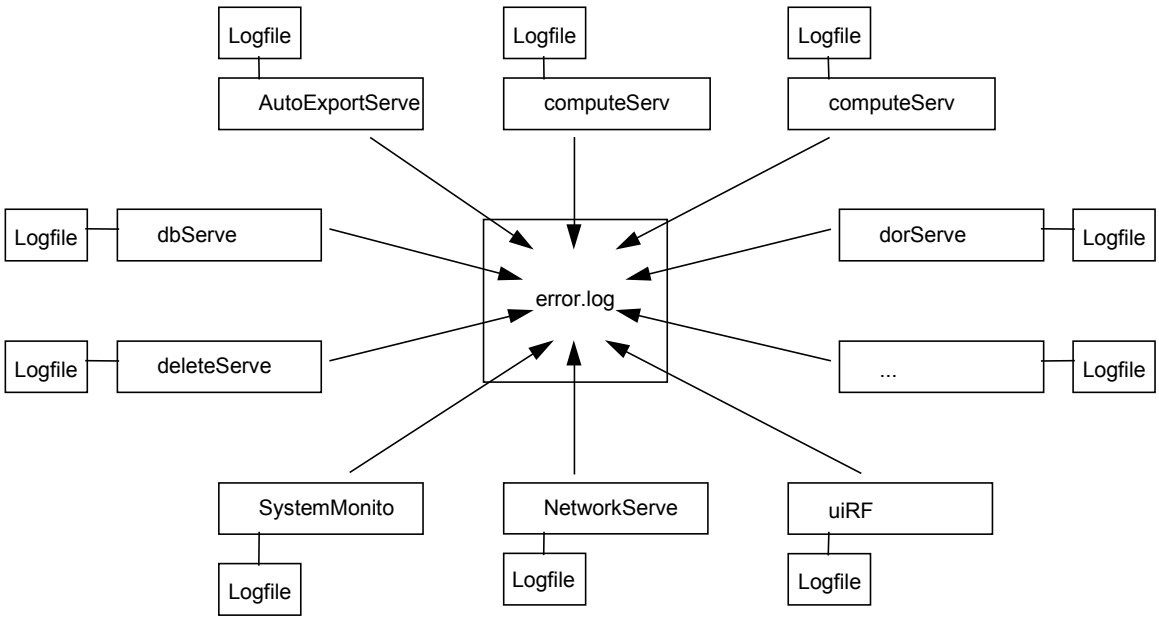
8.2.1. LOGFILES EASYVISION RAD 4.2

The most important logfiles:

- autoExportServer_autoExport_de25zu.log
- cdRecordableServer_cdRecordable_de25zu.log
- computeServer_compute_de25zu.log
- dbServer_db809f894d.log
- deleteServer_delete_de25zu.log
- hcRqs.log
- cServer_hcs0_de25zu.log
- httpServer_http_de25zu.log
- networkReaderServer_dmsReader_de25zu.log
- networkReaderServer_networkReader_de25zu.log
- networkServer_export_de25zu.log
- networkServer_import_de25zu.log
- printJobServer_printJob_de25zu.startup
- setupDbServer_setup.log
- systemMonitor_systemMonitor_de25zu.log
- uiBMD_uiBMD_de25zu.log
- iDataHandling_uiDataHandling_de25zu.log
- uiPerfusion_uiPerfusion_de25zu.log
- uiRF_uiRF_de25zu.log
- uiRad_uiRad_de25zu.log
- uiStackView_uiStackView_de25zu.log
- uiVolume_uiVolume_de25zu.log
- xConfig_xConfig.log
- xCustomize_xCustomize.log
- xEasyReview_xEasyReview_de25zu.log
- xUiEdit_xUiEdit.log

Overview:



The main header for a Process logfiles is described below

The next example shows the main part of the .log files.
(Example taken from the setup DbServer_setup.log file)

```
                                    Process id
                                        |
```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```
                                                    |                    |
Oct 27 14:59:00 1997:    === log opened for setupDbServer_setup       (pid 563)
===

Hostname:   EV1
Host id:    8087f688
Version:    EasyVision R4.1
Hospital:   Customer Support
Department: Service
```

8.3. SYSTEMMONITOR

The system Monitor performs the task to run other processes. If a process crashes, the system monitor tries to restart that process. It also knows if a process is critical or not, and can decide to stop that specific program or to stop the whole application.

Critical processes:	dBServer SetupServer
Non-critical processes:	a specific application, e.g. BCR, 3D etc http server

8.4. SERVER LOGFILES

Each process has its own error log files. It depends on which configuration (software options) you have what logfiles are written in the logfile directory.

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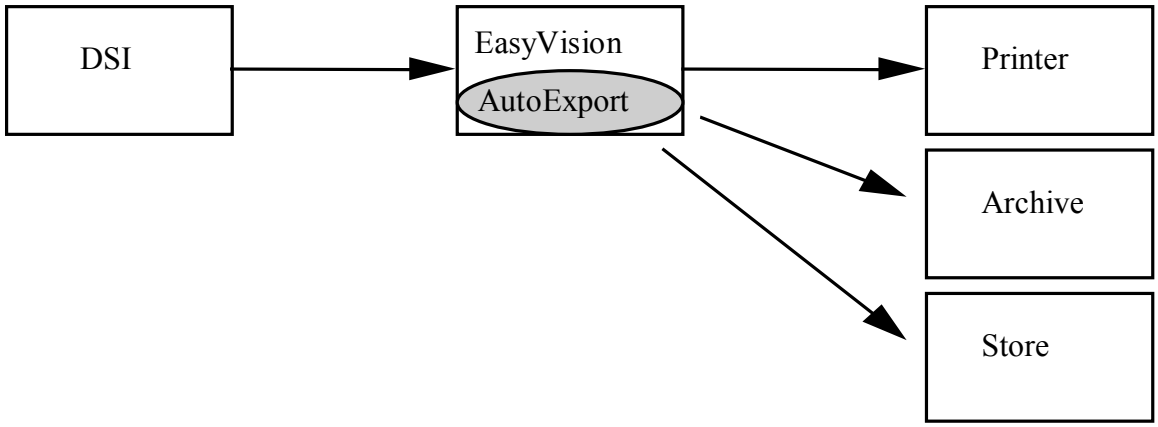
8.4.1. AUTOEXPORT SERVER

This process is responsible for all auto export actions.



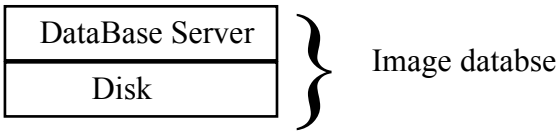
In the automatic routing panel (Customizing) the different destinations can be set.

8.4.2. COMPUTESERVER

The compute server performs tasks for other facilities, such as 3D calculation, BCR, etc.

8.4.3. DBSERVER

The database server handles all read, write, seek etc actions in the image database.



8.4.4. DELETESERVER

The delete server is a process dat performs several possibilities of deletion tasks. These tasks can be configured on the Customizing panel. For example, Protect, Protect until printed, Protect until stored on optical disk, Auto-expiration Interval of 12 hours etc.

8.4.5. DORSERVER

This server handles the optical disk as a normal image database.

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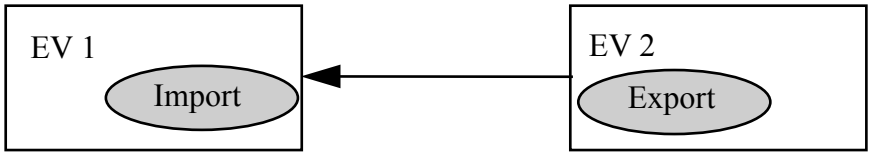
8.4.6. HTTPSERVER

Serves http requests over serial (PPP) or network.

8.4.7. NETWORKSERVER

There are two network servers: import and export.



8.4.8. SETUPDBSERVER

The setup database server handles the configuration of a system. The setupDbServer runs on the Server system. Once the Server system is running, the clients can take their own configuration and the configuration of the remote hosts or modalities from the setup database. In case of a stand-alone, the Server is integrated in the same machine.

8.4.9. UI<...>

The ui? processes, e.g. uiRF, uiVolume, (dependent of applications) give detailed information about the packages mentioned with the question mark.
If such an application is unstable, messages are written in the ui? logfile. If a critical error occurs, this error is also written in the error.log file.

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8.5. LICENSE LOGFILE LMGRD.STARTUP

WARNING

The Application will not start with a wrong or corrupted license file (/easydata/license.dat)!

The license manager checks if the license is correct for the requested application. Without a license for a specific package it is impossible to run that application. The license.dat file has been uploaded in the /easydata directory. Only in case of a Server or Standalone:

Wrong Host-ID Example:

```
17:01:39 (lmgrd) FLEXlm (v5.12a) started on ev1 (Sun) (12/10/1997)
17:01:39 (lmgrd) FLEXlm Copyright 1988-1996, Globetrotter Software, Inc.
17:01:39 (lmgrd) World Wide Web:  http://www.globetrotter.com
17:01:39 (lmgrd) License file: "/easydata/license.dat"
17:01:39 (lmgrd) Starting vendor daemons ...
17:01:39 (lmgrd) Started easylicd (internet tcp_port 32810 pid 2336)
17:01:39 (easylicd) Wrong hostid, exiting (expected 8087f687, got 8087f688).
17:01:39 (lmgrd) Please correct problem and restart daemons
17:01:45 (lmgrd) lmgrd will now shut down all the vendor daemons
```

8.6. INSTALLATION LOGFILE

The installation logfile install.log can be found in the /var/adm/cdslog/setup directory. In this file errors during installation are written. See 9.3 Installation logfile install.log.

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8.7. NETWORK LOGFILES

This chapter describes how to read the EasyVision Network logging (GCOM/DICOM). By using DICOM examples the main parts of the logfile are mentioned, because it is not possible to write down all the logging messages with their appropriate explanation.

The next paragraph describes how to download the logfiles to your PC (e.g. for sending logfiles to Philips Medical Systems in Best). Of course you can view the logfiles by means of the **cat** command or by using the **vi** editor on the EasyVision.

1 Connect the service PC to serial port B of EasyVision and run the KERMIT program which is delivered with the system (communication floppy).

2 Ttyb login : Service
`Password : xxxxxxx` Host ID number of EasyVision

3 Choose in the Service Menu “File Transfer”

4 `<IP nodename># cd /var/adm/cdslog -` Connect to directory /var/adm/cdslog
`<IP nodename># kermit` - Start kermit on the EasyServer
`C-kermit> server -` Put kermit into server mode
`Alt-x -` Back to the service PC.

5 `MS-Kermit> get net_impo -` Network import messages file
`MS-Kermit> get net_expo -` Network export messages file
`MS-Kermit> get sun_confi –` SUN Configaration / DICOM Association messages file

6 To disconnect, type

`MS-Kermit> finish` - Stop the server mode of the remote kermit
`MS-Kermit> connect -` Go to EasyVision
`C-Kermit> quit` - Stop the remote kermit
`<Host ID># exit` - Back to the Service Menu.

Select option : “Logout” in the service menu.

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8.8. TCP CONNECTION

First of all a TCP connection is created between the hosts who want to communicate via the DICOM protocol. The following example gives the connection between an EasyVision (EV1) and a DICOM node (DICOM1) at port 50082. In fact the DICOM connection is initiated at the port (DICOM listen port) written in the Conformance Statement, but the child process is transferred to port 50082. Now the server can start another TCP connection.

The next line is written in the logfile:

```
Jul 25 10:06:23 EV1 sunConfig: Info:CREATED TCP CONNECTION from host: [EV1] to
host: [DICOM1] at port: [50082].
```

When the TCP connection is released the following line appears in the logfile

```
Jul 25 10:06:26 EV1 sunConfig: Info:RELEASED TCP CONNECTION from host: [EV1] to
host: [DICOM1].
```

8.9. ASSOCIATION PDU TYPES

The Protocol Data Units (PDUs) are the DICOM packets (containing messages/data/comments) exchanged between peer entities within a DICOM layer. It consists of protocol control information and user data. PDUs are constructed by mandatory fixed fields followed by optional variable fields that contain one or more items and/or sub-items.

After creating a TCP connection the PDU types are associated. The EasyVision sends a PDU type to the remote DICOM node as the requestor.

```
Jul 25 10:06:23 EV1 sunConfig: Info:SENT: [ASSOCIATE_RQ_PDU_TYPE] from: [EV1] to
: [DICOM1].
```

Next the EasyVision receives a PDU type from the remote DICOM node. The remote DICOM node is the acceptor.

If these services are confirmed a DICOM association is made:

```
Jul 25 10:06:25 EV1 sunConfig: Info:ESTABLISHED DICOM ASSOCIATION from: [EV1] to
: [DICOM1].
```

If not, messages like these are written:

```
Jul 25 10:06:25 EV1 sunConfig: Info:[049SBCDC01DIC1] REJECTS following
PRESENTATION CONTEXTS from: [EV1]:

ID    ABSTRACT_SYNTAX                   TRANSFER_SYNTAX
REJECT_REASON
007   1.2.840.10008.5.1.4.1.1.1         1.2.840.10008.1.2.4.70
```

This means that the abstract syntax CR-Image Store via the transfer syntax JPEG Lossless (see DICOM Conformance Statement) is not accepted.

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8.10. ACCEPTED PRESENTATION CONTEXTS

Once the DICOM association is confirmed the accepted presentation context are written in the logfile:

```
ACCEPTED PRESENTATION CONTEXTS:
ID    ABSTRACT_SYNTAX                 TRANSFER_SYNTAX
001   1.2.840.10008.5.1.4.1.1.1       1.2.840.10008.1.2
003   1.2.840.10008.5.1.4.1.1.1       1.2.840.10008.1.2.1
005   1.2.840.10008.5.1.4.1.1.1       1.2.840.10008.1.2.2
009   1.2.840.10008.5.1.4.1.1.2       1.2.840.10008.1.2
011   1.2.840.10008.5.1.4.1.1.2       1.2.840.10008.1.2.1
013   1.2.840.10008.5.1.4.1.1.2       1.2.840.10008.1.2.2
017   1.2.840.10008.5.1.4.1.1.4       1.2.840.10008.1.2
019   1.2.840.10008.5.1.4.1.1.4       1.2.840.10008.1.2.1
021   1.2.840.10008.5.1.4.1.1.4       1.2.840.10008.1.2.2
025   1.2.840.10008.5.1.4.1.1.5       1.2.840.10008.1.2
027   1.2.840.10008.5.1.4.1.1.5       1.2.840.10008.1.2.1
029   1.2.840.10008.5.1.4.1.1.5       1.2.840.10008.1.2.2
033   1.2.840.10008.5.1.4.1.1.6       1.2.840.10008.1.2
035   1.2.840.10008.5.1.4.1.1.6       1.2.840.10008.1.2.1
037   1.2.840.10008.5.1.4.1.1.6       1.2.840.10008.1.2.2
041   1.2.840.10008.5.1.4.1.1.7       1.2.840.10008.1.2
043   1.2.840.10008.5.1.4.1.1.7       1.2.840.10008.1.2.1
045   1.2.840.10008.5.1.4.1.1.7       1.2.840.10008.1.2.2
```

In this example CR-Image Storage (1.2.840.10008.5.1.4.1.1.1)is accepted via Implicit VR Little Endian (1.2.840.10008.1.2), Explicit VR little Endian (1.2.840.10008.1.2.1), and Explicit VR Big Endian 1.2.840.10008.1.2.2).
This also is valid for: CT-Image Storage, MR-Image Storage, NM-Image Storage, US-Image Storage and SC-Image Storage (See the Conformance Statement for detailed information).

8.11. LOCAL / PEER INFORMATION

After the accepted presentation context tables are written in the logfile, the LOCAL / PEER parameters are displayed.:

```
ApplicationContextName:          [1.2.840.10008.3.1.1.1]
LOCALMaxDataPDULength:           [0]
PEERMaxDataPDULength:            [16384]
LOCALImplementationClassUID:     [1.3.46.670589.5.2.2]
PEERImplementationClassUID:      [1.3.12.2.1107.5.1995.1]
LOCALImplementationVersionName: [EVCTMR21]
PEERImplementationVersionName:   [SIEMENS_DICOM_10]
MaxOperationsInvoked:            [1]
MaxOperationsPerformed:          [1]
```

8.11.1. APPLICATION CONTEXT NAME

Two Application Entities establish an association by agreeing on an application context. The requester of an association proposes an Application Context Name and the acceptor returns either the same or a different Application Context Name. The returned name specifies the application context to be used for this association.
According to the DICOM Standard a single DICOM Application Context Name is "1.2.840.10008.3.1.1.1".

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8.11.2. LOCAL MAX DATA PDU LENGTH

According to the DICOM standard a PDU Length of 0 means that the maximum length is unlimited. Some DICOM nodes do not understand a maximum PDU length of 0 bytes. The following error message is written:

```
Jul 25 10:06:30 EV1 sunEasyVision: ObjC [nil@0x0] Received: [DATA_TF_PDU_TYPE]
has unexpected PDULength : [0], expected > [6]. -- (TBX,W)
```

In this case a PDU length = 0, but the remote system expects a value greater than 6 bytes (header). In fact it expects 6 bytes plus the real PDU length or shorter. 0 < x =< PDU length

The DICOM association shall be disconnected because of the invalid PDU Length:

```
Jul 25 10:06:30 EV1 sunEasyVision: ObjC [DULConnection@0xdd9328 __abort:reason:]
Sent: [ABORT_PDU_TYPE] with SOURCE: [ABORT_AS_DUL_PROVIDER] and REASON:
[ABORT_INVALID_PDU_PARAMETER] from: [EV1] to: [DICOM1] (aborting...). -- (TBX,W)
Jul 25 10:06:30 EV1 sunEasyVision: Info:RELEASED TCP CONNECTION from host: [EV1]
to host: [DICOM1].
```

8.11.3. PEER MAX DATA PDU LENGTH

The maximum PDU length the remote DICOM node can handle. In this case a maximum of 16384 bytes is allowed.

8.11.4. IMPLEMENTATION IDENTIFICATION NOTIFICATION

The implementation identification notification allows implementations of communicating AEs to identify each other at Association establishment time. It is intended to provide respective (each network node knows the other's implementation identity) and non-ambiguous identification in the event of communication problems encountered between two nodes. This negotiation is required.

Implementation identification relies on two pieces of information:

- Implementation Class UID (required);
- Implementation Version Name (optional).

LOCALImplementationClassUID:	defined registered value by the ISO
PEERImplementationClassUID:	defined registered value by the ISO
LOCALImplementationVersionName:	The version name extracted from the EasyVision software. For example: EVXR31. EVCTMR21.
PEERImplementationVersionName:	The implementation version name of the remote DICOM node.

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8.11.5. MAX OPERATIONS

The maximum number of outstanding operations and/or sub-operations it may invoke or performed asynchronously.
The EasyVision does not support asynchronous operations. (see Conformance Statement)

8.12. VERIFYING SYNTAXES

The verifying of the DICOM syntaxes starts with (e.g. verifying SC-Image Store):

```
Mar 17 11:14:23 EV1 networkServer_network_EV1: Info:START VERIFYING:
[1.2.840.10008.5.1.4.1.1.7] from: [EV1] to: [DICOM1]
```

Next a syntax check is written:

```
Mar 17 11:14:23 EV1 networkServer_network_EV1: Info:LOG: 1, REPAIR: 1,
SYNTAX_CHECK: 1, REJECT: 1, PMSNET: 0, GCOM: 0, PURE: 0.
```

LOG:	boolean	1: logging per attribute	0: no specific logging per attribute
REPAIR:	boolean	1: repair attribute	0: not repair attribute
REJECT:	boolean	1: do not put image in database	0: put image in database
PMSNET:	boolean	1: convert to PMSNet	0: do not convert PMSNet
GCOM:	boolean	1: convert to GCOM	0: do not convert GCOM
PURE:	boolean	1: accept only DICOM attributes	0: do not accept only DICOM attrbutes

(See the advanced DICOM menu configuration for changing LOG, REPAIR, REJECT, PURE)

8.12.1. SYNTAX ERRORS

If syntax errors occur lines like following messages are written in the logfile:

```
Aug 13 13:05:54 EV1 networkServer_import_EV1: Info:BasicVerifier: repaired DICOM
 attribute (0x0008, 0x0023) [SPI_IMAGE_DATE]
```

In this case a DICOM attribute (Image date) is repaired.

Another examples gives a syntax check where PURE is set to 0:

```
Mar 17 11:14:24 EV1 networkServer_network_EV1: Info:NON PURE DICOM attribute:
(0x0011, 0x1110) [SPI_PATIENT_ENTRY_ID]
Mar 17 11:14:24 EV1 networkServer_network_EV1: Info:NON PURE DICOM attribute:
(0x0009, 0x1051) [SPI_STUDY_UNIQUE_IDENTIFIER]
```

In this case all Non Pure DICOM attribute (0x0011, 0x1110 and 0x0009, 0x1051) are not accepted.

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8.13. CLOSING DICOM CONNECTION

Closing a DICOM connection is done via:

```
Jul 25 10:06:25 EV1 sunConfig: Info:SENT: [RELEASE_RQ_PDU_TYPE] from: [EV1] to:
[DICOM1].
Jul 25 10:06:26 EV1 sunConfig: Info:RECEIVED: [RELEASE_RP_PDU_TYPE] from:
[DICOM1] to: [EV1].
Jul 25 10:06:26 EV1 sunConfig: Info:RELEASED TCP CONNECTION from host: [EV1] to
host: [DICOM1].
```

First of all the requestor sends a PDU Type release to the remote DICOM node. Next a response is received, and finally the TCP connection is closed.

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9. LOGFILE EXAMPLES

Refer to **bold** sections in Lmgrd.startup and systemMonitor

9.1. LMGRD.STARTUP

```
16:56:14 (lmgrd) -----------------------------------------------
16:56:14 (lmgrd)   Please Note:
16:56:14 (lmgrd)
16:56:14 (lmgrd)   This log is intended for debug purposes only.
16:56:14 (lmgrd)   There are many details in licensing policies
16:56:14 (lmgrd)   that are not reported in the information logged
16:56:14 (lmgrd)   here, so if you use this log file for any kind
16:56:14 (lmgrd)   of usage reporting you will generally produce
16:56:14 (lmgrd)   incorrect results.
16:56:14 (lmgrd)
16:56:14 (lmgrd) -----------------------------------------------
16:56:14 (lmgrd)
16:56:14 (lmgrd)
16:56:14 (lmgrd) FLEXlm (v5.12a) started on ev1 (Sun) (12/10/1997)
16:56:14 (lmgrd) FLEXlm Copyright 1988-1996, Globetrotter Software, Inc.
16:56:14 (lmgrd) World Wide Web:  http://www.globetrotter.com
16:56:14 (lmgrd) License file: "/easydata/license.dat"
16:56:14 (lmgrd) Starting vendor daemons ...
16:56:14 (lmgrd) Started easylicd (internet tcp_port 32796 pid 1413)
16:56:15 (easylicd) Server started on ev1 for:    EasyServer
16:56:15 (easylicd) EasyClient  EasyReview      Navigator
16:56:15 (easylicd) EasyView    BolusChaseClient BolusChaseServer
16:56:15 (easylicd) SpineClient SpineServer     ColonMap
16:56:15 (easylicd) XrayCardio  XrayVascular    EasyCorrect
16:56:15 (easylicd) Stackview   Dental          Volume
16:56:15 (easylicd) 3dBasicSurface      3dVolume        3dAdvSegmentation
16:56:15 (easylicd) 3dCTMRAngio 3dCTMRMatching  3dEndoView
16:56:15 (easylicd) MRCardio    CTMRPerfusion   DynamicContrast
16:56:15 (easylicd) BrainPerfusion      EasyPrint       Communication
16:56:15 (easylicd) GCOMCommunication DSLCommunication EasyStoreODClient
16:56:15 (easylicd) EasyStoreODServer EasyStoreCDRClient CTMRODInput
16:56:15 (easylicd) RIS         NetView         CCWCommunication
16:56:15 (easylicd) TestSoftwareKeys
17:00:09 (easylicd) OUT: "EasyView" EasyUser@ev1
17:00:30 (easylicd) IN: "EasyView" EasyUser@ev1

17:00:31 (lmgrd) lmgrd will now shut down all the vendor daemons

17:00:31 (lmgrd) Shutting down easylicd
17:00:31 (easylicd) daemon shutdown requested - shutting down

Wed Dec 10 17:00:31 1997: ========== closed ==========
Wed Dec 10 17:01:38 1997: ========== opened ==========
17:01:39 (lmgrd) -----------------------------------------------
17:01:39 (lmgrd)   Please Note:
17:01:39 (lmgrd)
17:01:39 (lmgrd)   This log is intended for debug purposes only.
17:01:39 (lmgrd)   There are many details in licensing policies
17:01:39 (lmgrd)   that are not reported in the information logged
17:01:39 (lmgrd)   here, so if you use this log file for any kind
17:01:39 (lmgrd)   of usage reporting you will generally produce
17:01:39 (lmgrd)   incorrect results.
17:01:39 (lmgrd)
17:01:39 (lmgrd) -----------------------------------------------
```


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```
17:01:39 (lmgrd)
17:01:39 (lmgrd)
17:01:39 (lmgrd) FLEXlm (v5.12a) started on ev1 (Sun) (12/10/1997)
17:01:39 (lmgrd) FLEXlm Copyright 1988-1996, Globetrotter Software, Inc.
17:01:39 (lmgrd) World Wide Web:  http://www.globetrotter.com
17:01:39 (lmgrd) License file: "/easydata/license.dat"
17:01:39 (lmgrd) Starting vendor daemons ...
17:01:39 (lmgrd) Started easylicd (internet tcp_port 32810 pid 2336)
17:01:39 (easylicd) Wrong hostid, exiting (expected 8087f687, got 8087f688).
17:01:39 (lmgrd) Please correct problem and restart daemons

17:01:45 (lmgrd) lmgrd will now shut down all the vendor daemons


Wed Dec 10 17:01:45 1997: ========== closed ==========
```

9.2. SYSTEMMONITOR

```
Dec 10 17:01:14 1997:    === log opened for systemMonitor_systemMonitor_ev1
e (pid 2038) ===

Hostname:   ev1
Host id:    8087f688
Version:    EasyVision R4.1
Hospital:   Medisch centrum Best
Department: crisis centre

Dec 10 17:01:14 1997: CONNECTION: NOT USING IP ADDRESS FOR HOST[ev1]
Dec 10 17:01:15 1997: SystemMonitor [SetupMonitorService]: stoppping all monitored processes
Dec 10 17:01:15 1997: SystemMonitor [SetupMonitorService]: process [setupDbServer setup] stoppped
Dec 10 17:01:15 1997: Process [setupDbServer] [setup] on host [ev1] : stopped
Dec 10 17:01:21 1997: Process [setupDbServer setup] on host [ev1]: successfully (re)started
Dec 10 17:01:22 1997: SystemMonitor [SetupMonitorService] process [setupDbServer][setup] contacted
Dec 10 17:01:25 1997: SystemMonitor [systemMonitor_ev1]: stoppping all monitored processes
Dec 10 17:01:25 1997: SystemMonitor [systemMonitor_ev1]: process [lmgrd lmgrd_ev1] stoppped
Dec 10 17:01:25 1997: Process [lmgrd] on host [ev1] : stopped
Dec 10 17:01:25 1997: SystemMonitor [systemMonitor_ev1]: process [dbServer db8087f688] stoppped
Dec 10 17:01:25 1997: Process [dbServer] [db8087f688] on host [ev1] : stopped
Dec 10 17:01:26 1997: SystemMonitor [systemMonitor_ev1]: process [uiRF uiRF_ev1] stoppped
Dec 10 17:01:26 1997: Process [uiRF] [uiRF_ev1] on host [ev1] : stopped
Dec 10 17:01:26 1997: SystemMonitor [systemMonitor_ev1]: process [uiSpine uiSpine_ev1] stoppped
Dec 10 17:01:26 1997: Process [uiSpine] [uiSpine_ev1] on host [ev1] : stopped
Dec 10 17:01:27 1997: SystemMonitor [systemMonitor_ev1]: process [uiCardio uiCardio_ev1] stoppped
Dec 10 17:01:27 1997: Process [uiCardio] [uiCardio_ev1] on host [ev1] : stopped
Dec 10 17:01:28 1997: SystemMonitor [systemMonitor_ev1]: process [uiVascular uiVascular_ev1]
stoppped
Dec 10 17:01:28 1997: Process [uiVascular] [uiVascular_ev1] on host [roodkapje] : stopped
Dec 10 17:01:28 1997: SystemMonitor [systemMonitor_ev1]: process [uiStackView uiStackView_ev1]
stoppped
Dec 10 17:01:28 1997: Process [uiStackView] [uiStackView_ev1] on host [roodkapje] : stopped
Dec 10 17:01:29 1997: SystemMonitor [systemMonitor_ev1]: process [uiDental
View uiDentalView_ev1] stoppped
Dec 10 17:01:29 1997: Process [uiDentalView] [uiDentalView_ev1] on host [roodkapje] : stopped
Dec 10 17:01:29 1997: SystemMonitor [systemMonitor_ev1]: process [uiVolume uiVolume_ev1] stoppped
Dec 10 17:01:29 1997: Process [uiVolume] [uiVolume_ev1] on host [ev1] : stopped
Dec 10 17:01:30 1997: SystemMonitor [systemMonitor_ev1]: process [uiMRCardio uiMRCardio_ev1]
stoppped
Dec 10 17:01:30 1997: Process [uiMRCardio] [uiMRCardio_ev1] on host [roodkapje] : stopped
Dec 10 17:01:31 1997: SystemMonitor [systemMonitor_ev1]: process [uiPerfusion uiPerfusion_ev1]
stoppped
Dec 10 17:01:31 1997: Process [uiPerfusion] [uiPerfusion_ev1] on host [roodkapje] : stopped
Dec 10 17:01:31 1997: SystemMonitor [systemMonitor_ev1]: process [xEasyReview xEasyReview_ev1]
stoppped
Dec 10 17:01:31 1997: Process [xEasyReview] [xEasyReview_ev1] on host [roodkapje] : stopped
Dec 10 17:01:32 1997: SystemMonitor [systemMonitor_ev1]: process [uiDataHandling uiDataHandling_ev1]
stoppped
Dec 10 17:01:32 1997: Process [uiDataHandling] [uiDataHandling_ev1] on host [ev1] : stopped
Dec 10 17:01:33 1997: SystemMonitor [systemMonitor_ev1]: process [httpServer http_ev1] stoppped
Dec 10 17:01:33 1997: Process [httpServer] [http_ev1] on host [ev1] : stopped
Dec 10 17:01:33 1997: SystemMonitor [systemMonitor_ev1]: process [networkServer import_ev1] stoppped
Dec 10 17:01:33 1997: Process [networkServer] [import_ev1] on host [roodkapje] : stopped
Dec 10 17:01:34 1997: SystemMonitor [systemMonitor_ev1]: process [networkServer export_ev1] stoppped
Dec 10 17:01:34 1997: Process [networkServer] [export_ev1] on host [roodkapje] : stopped
Dec 10 17:01:34 1997: SystemMonitor [systemMonitor_ev1]: process [hcServer hcs0_ev1] stoppped
```


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```
Dec 10 17:01:34 1997: Process [hcServer] [hcs0_ev1] on host [ev1] : stopped
Dec 10 17:01:35 1997: SystemMonitor [systemMonitor_ev1]: process [dorServer dor_ev1] stoppped
Dec 10 17:01:35 1997: Process [dorServer] [dor_ev1] on host [ev1] : stopped
Dec 10 17:01:36 1997: SystemMonitor [systemMonitor_ev1]: process [computeServer compute_ev1]
stoppped
Dec 10 17:01:36 1997: Process [computeServer] [compute_ev1] on host [roodkapje] : stopped
Dec 10 17:01:36 1997: SystemMonitor [systemMonitor_ev1]: process [deleteServer delete_ev1] stoppped
Dec 10 17:01:36 1997: Process [deleteServer] [delete_ev1] on host [ev1] : stopped
Dec 10 17:01:37 1997: SystemMonitor [systemMonitor_ev1]: process [autoExportServer autoExport_ev1]
stoppped
Dec 10 17:01:37 1997: Process [autoExportServer] [autoExport_ev1] on host [ev1] : stopped
Dec 10 17:01:44 1997: Process [lmgrd lmgrd_ev1] on host [ev1]: successfully (re)started
Dec 10 17:01:44 1997: SystemMonitor [systemMonitor_ev1] process [lmgrd][lmgrd_ev1] contacted
Dec 10 17:01:44 1997: FLEXLM ERROR CHECKOUT:option:EasyServer,version:4.1,mode:Check;error:Cannot
connect to license server (-15,12)
Dec 10 17:01:44 1997: SystemMonitor [systemMonitor_ev1] process [dbServer][db8087f688] not started
due to missing license(s): exiting complete application
Dec 10 17:01:44 1997: SystemMonitor [systemMonitor_ev1] free: stopping all monitored processes
Dec 10 17:01:44 1997: Process [lmgrd lmgrd_ev1] on host [ev1]: stoppped
Dec 10 17:01:44 1997: Process [lmgrd] on host [ev1] : stopped
Dec 10 17:01:45 1997: Process [setupDbServer setup] on host [ev1]: stoppped
Dec 10 17:01:45 1997: Process [setupDbServer] [setup] on host [ev1] : stopped
Dec 10 17:01:46 1997:    === log closed for systemMonitor_systemMonitor_ev1 (pid 2038) ===
```

9.3. INSTALLATION LOGFILE INSTALL.LOG

```
Welcome to the OS installation utility....


        Remember that after an OS installation you have to
        (re)install the application and (re)configure!!!
        type <return> to continue execution

        The system will be installed for the EasyVision product


        Taking disk c0t3d0 as EasyVision System Disk
                Using "SEAGATE  ST32155W SUN2.1G" as disk type.


        Taking disk c0t2d0 as EasyVision Image Harddisk
                Using "MICROP   3391NS" as disk type.


        WARNING: Add_Img_disk (c0t1d0) not detected (skipping)


        Formatting takes between 5 and 15 minutes per Gigabyte

        Enter your choices now:

        Select the required action for the Image Harddisk
                     [F(ormat)|P(artition)|S(kip, do not use)]      ?:  p

        Select the required action for the System Disk
                                [F(ormat)|P(artition)]             ?:  p


                     DISK                          FORMAT    PARTITION
        ------------------------------------------------------------
         c0t2d0 (Image Harddisk)                     N          Y
         c0t3d0 (System Disk)                        N          Y

        Are these choices correct    (Y|N) ?:  y

         Formatting and/or partitioning selected disks ....   DONE.

        Now we will install the Operating System software.
```


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```
        This will take about 30 minutes

        The next steps are copying some files from CD-ROM to System disk
        But first we have to mount the System disk slices we need....

        Mounting and copying will take about 5 minutes....


        The file systems /dev/dsk/c0t3d0s0, /dev/dsk/c0t3d0s3,
        /dev/dsk/c0t3d0s6 and /dev/dsk/c0t3d0s7 are mounted now.
new owner is root
directory /cdrom/DISK0/spare created
new owner is EasyLook
directory /cdrom/DISK7/EasyLook created
new owner is EasyUser
directory /cdrom/DISK3/adm/cdslog created
new owner is EasyUser
directory /cdrom/DISK3/adm/cdslog/setup created

        The next step is installing the bootblock in slice /dev/dsk/c0t3d0s0....

        The bootblock is installed.

        Installing NVRAM settings....
        /cdrom/INSTALL/nvram_settings.SS5
security-password: data not available.

        Creating the mount-points for the Image Harddisk slices
        and creating the correct mount table, both on System disk.
new owner is root
directory /cdrom/DISK0/easy created
new owner is root
directory /cdrom/DISK0/easydata created
new owner is root
directory /cdrom/DISK0/dbadmin created

        The correct mount table is installed.

        Updating network information.

        Setting the Service password

        Creating /cdrom/DISK0/devices

        Creating /cdrom/DISK0/dev
```


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